

Title (en)
DEVICE AND METHOD FOR REDUCING QUANTIZATION NOISE IN A TIME-DOMAIN DECODER

Title (de)
VORRICHTUNG UND VERFAHREN ZUR REDUKTION VON QUANTISIERUNGSRÄUSCHEN IN EINEM ZEITBEREICHSDÉCODER

Title (fr)
DISPOSITIF ET PROCÉDÉ DE RÉDUCTION DU BRUIT DE QUANTIFICATION DANS UN DÉCODEUR DANS LE DOMAINE TEMPOREL

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Application
EP 23184518 A 20140109

Priority

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- EP 14760909 A 20140109
- CA 2014000014 W 20140109

Abstract (en)
The present disclosure relates to a device and method for reducing quantization noise in a signal contained in a time-domain excitation decoded by a time-domain decoder. The decoded time-domain excitation is converted into a frequency-domain excitation. A weighting mask is produced for retrieving spectral information lost in the quantization noise. The frequency-domain excitation is modified to increase spectral dynamics by application of the weighting mask. The modified frequency-domain excitation is converted into a modified time-domain excitation. The method and device can be used for improving music content rendering of linear-prediction (LP) based codecs. Optionally, a synthesis of the decoded time-domain excitation may be classified into one of a first set of excitation categories and a second set of excitation categories, the second set including INACTIVE or UNVOICED categories, the first set including an OTHER category.

IPC 8 full level
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Citation (applicant)

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US 2014249807 A1 20140904; US 9384755 B2 20160705; AU 2014225223 A1 20150813; AU 2014225223 B2 20190704; CA 2898095 A1 20140912; CA 2898095 C 20191203; CN 105009209 A 20151028; CN 105009209 B 20191220; CN 111179954 A 20200519; CN 111179954 B 20240312; DK 2965315 T3 20190729; DK 3537437 T3 20210531; DK 3848929 T3 20231016; EP 2965315 A1 20160113; EP 2965315 A4 20161005; EP 2965315 B1 20190424; EP 3537437 A1 20190911; EP 3537437 B1 20210414; EP 3848929 A1 20210714; EP 3848929 B1 20230712; EP 4246516 A2 20230920; EP 4246516 A3 20231115; ES 2872024 T3 20211102; ES 2961553 T3 20240312; FI 3848929 T3 20231011; HK 1212088 A1 20160603; HR P20211097 T1 20211015; HR P20231248 T1 20240202; HU E054780 T2 20210928; HU E063594 T2 20240128; JP 2016513812 A 20160516; JP 2019053326 A 20190404; JP 2021015301 A 20210212; JP 2023022101 A 20230214; JP 6453249 B2 20190116; JP 6790048 B2 20201125; JP 7179812 B2 20221129; JP 7427752 B2 20240205; KR 102237718 B1 20210409; KR 20150127041 A 20151116; LT 3537437 T 20210625; LT 3848929 T 20231025; MX 2015010295 A 20151026; MX 345389 B 20170126; PH 12015501575 A1 20151005; PH 12015501575 B1 20151005; RU 2015142108 A 20170411; RU 2638744 C2 20171215; SI 3537437 T1 20210831; SI 3848929 T1 20231229; TR 201910989 T4 20190821; US 2016300582 A1 20161013; US 9870781 B2 20180116; WO 2014134702 A1 20140912

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